#14

ENTERED 1644

RECEIVED

```
RAW SEQUENCE LISTING                      DATE: 08/14/2000
PATENT APPLICATION: US/09/065,902         TIME: 15:57:31

Input Set : A:\06094270001-Seqlisting.txt
Output Set: N:\CRF3\08142000\I065902.raw

SEQUENCE LISTING
         1 (1) GENERAL INFORMATION:
         6      (i) APPLICANT: Tanzi, Rudolph E.
         7                     Kim, Tae-Wan
         9     (ii) TITLE OF INVENTION: A Purified 20 kDa Presenilin 2
        10                          C-terminal Fragment and Methods of Screening for Compounds
        11                          that Inhibit Proteolysis of Presenilin 2
        12    (iii) NUMBER OF SEQUENCES: 18
        14     (iv) CORRESPONDENCE ADDRESS:
        16          (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
        17          (B) STREET: 1100 New York Avenue, NW, Suite 600
        18          (C) CITY: Washington
        19          (D) STATE: DC
        20          (E) COUNTRY: USA
        21          (F) ZIP: 20005-3934
        23      (v) COMPUTER READABLE FORM:
        24          (A) MEDIUM TYPE: Floppy disk
        25          (B) COMPUTER: IBM PC compatible
        26          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
        27          (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
        29     (vi) CURRENT APPLICATION DATA:
C--> 30          (A) APPLICATION NUMBER: US/09/065,902
C--> 31          (B) FILING DATE: 24-Apr-1998
        32          (C) CLASSIFICATION:
        34    (vii) PRIOR APPLICATION DATA:
        35          (A) APPLICATION NUMBER: US 60/044,262
        36          (B) FILING DATE: 24-APR-1997
        38   (viii) ATTORNEY/AGENT INFORMATION:
        39          (A) NAME: Goldstein, Jorge A.
        40          (B) REGISTRATION NUMBER: 29,021
        41          (C) REFERENCE/DOCKET NUMBER: 0609.4270001/JAG/S-B
        42     (ix) TELECOMMUNICATION INFORMATION:
        44          (A) TELEPHONE: (202) 371-2600
        45          (B) TELEFAX: (202) 371-2540
        47 (2) INFORMATION FOR SEQ ID NO: 1:
        49      (i) SEQUENCE CHARACTERISTICS:
        50          (A) LENGTH: 5 amino acids
        51          (B) TYPE: amino acid
        52          (C) STRANDEDNESS: single
W--> 53          (D) TOPOLOGY: not relevant
        55     (ii) MOLECULE TYPE: peptide
        60     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
        62      Asp Ser Tyr Asp Ser
        63      1               5
        65 (2) INFORMATION FOR SEQ ID NO: 2:
        67      (i) SEQUENCE CHARACTERISTICS:
        68          (A) LENGTH: 5 amino acids
```

```
                        RAW SEQUENCE LISTING                DATE: 08/14/2000
                        PATENT APPLICATION   US/09/065,902      TIME: 15:37:34

                        Input Set : A:\06094270001-Seqlisting.txt
                        Output Set: N:\CRF3\08142000\I065902.raw

      69              (B) TYPE: amino acid
      70              (C) STRANDEDNESS: single
W--> 71               (D) TOPOLOGY: not relevant
      73        (ii) MOLECULE TYPE: peptide
      78        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
      80         Pro Glu Met Glu Glu Asp
      81         1               5
      83 (2) INFORMATION FOR SEQ ID NO: 3:
      85         (i) SEQUENCE CHARACTERISTICS:
      86              (A) LENGTH: 9 amino acids
      87              (B) TYPE: amino acid
      88              (C) STRANDEDNESS: single
W--> 89               (D) TOPOLOGY: not relevant
      91        (ii) MOLECULE TYPE: peptide
      96        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
      98         Pro Glu Met Glu Glu Asp Ser Tyr Asp
      99         1               5
     101 (2) INFORMATION FOR SEQ ID NO: 4:
     103         (i) SEQUENCE CHARACTERISTICS:
     104              (A) LENGTH: 7 amino acids
     105              (B) TYPE: amino acid
     106              (C) STRANDEDNESS: single
W--> 107              (D) TOPOLOGY: not relevant
     109        (ii) MOLECULE TYPE: peptide
     114        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
     116         Pro Glu Met Glu Glu Asp Ser
     117         1               5
     119 (2) INFORMATION FOR SEQ ID NO: 5:
     121         (i) SEQUENCE CHARACTERISTICS:
     122              (A) LENGTH: 8 amino acids
     123              (B) TYPE: amino acid
     124              (C) STRANDEDNESS: single
W--> 125              (D) TOPOLOGY: not relevant
     127        (ii) MOLECULE TYPE: peptide
     132        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
     134         Pro Glu Met Glu Glu Asp Ser Tyr
     135         1               5
     137 (2) INFORMATION FOR SEQ ID NO: 6:
     139         (i) SEQUENCE CHARACTERISTICS:
     140              (A) LENGTH: 6 amino acids
     141              (B) TYPE: amino acid
     142              (C) STRANDEDNESS: single
W--> 143              (D) TOPOLOGY: not relevant
     145        (ii) MOLECULE TYPE: peptide
     150        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
     152         Glu Met Glu Glu Asp Ser
     153         1               5
     155 (2) INFORMATION FOR SEQ ID NO: 7:
     157         (i) SEQUENCE CHARACTERISTICS:
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/065,902

DATE: 08/14/2000
TIME: 15:57:34

Input Set : A:\06094270001-Seqlisting.txt
Output Set: N:\CRF3\08142000\I065902.raw

```
     158           (A) LENGTH: 7 amino acids
     159           (B) TYPE: amino acid
     160           (C) STRANDEDNESS: single
W--> 161           (D) TOPOLOGY: not relevant
     162      (ii) MOLECULE TYPE: peptide
     163      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
     164       Glu Met Glu Glu Asp Ser Tyr
     165       1               5
     166 (2) INFORMATION FOR SEQ ID NO: 8:
     167       (i) SEQUENCE CHARACTERISTICS:
     168           (A) LENGTH: 8 amino acids
     169           (B) TYPE: amino acid
     170           (C) STRANDEDNESS: single
W--> 171           (D) TOPOLOGY: not relevant
     172      (ii) MOLECULE TYPE: peptide
     173      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
     174       Glu Met Glu Glu Asp Ser Tyr Asp
     175       1               5
     176 (2) INFORMATION FOR SEQ ID NO: 9:
     177       (i) SEQUENCE CHARACTERISTICS:
     178           (A) LENGTH: 6 amino acids
     179           (B) TYPE: amino acid
     180           (C) STRANDEDNESS: single
W--> 181           (D) TOPOLOGY: not relevant
     182      (ii) MOLECULE TYPE: peptide
     183      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
     184       Glu Glu Asp Ser Tyr Asp
     185       1               5
     186 (2) INFORMATION FOR SEQ ID NO: 10:
     187       (i) SEQUENCE CHARACTERISTICS:
     188           (A) LENGTH: 7 amino acids
     189           (B) TYPE: amino acid
     190           (C) STRANDEDNESS: single
W--> 191           (D) TOPOLOGY: not relevant
     192      (ii) MOLECULE TYPE: peptide
     193      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
     194       Glu Glu Asp Ser Tyr Asp Ser
     195       1               5
     196 (2) INFORMATION FOR SEQ ID NO: 11:
     197       (i) SEQUENCE CHARACTERISTICS:
     198           (A) LENGTH: 8 amino acids
     199           (B) TYPE: amino acid
     200           (C) STRANDEDNESS: single
W--> 201           (D) TOPOLOGY: not relevant
     202      (ii) MOLECULE TYPE: peptide
     203      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
     204       Glu Glu Asp Ser Tyr Asp Ser Phe
     205       1               5
     206 (2) INFORMATION FOR SEQ ID NO: 12:
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/065,902

DATE: 08/11/2000
TIME: 15:57:34

Input Set : A:\06094270001-Seqlisting.txt
Output Set: N:\CRF3\08142000\I065902.raw


```
     217       (i) SEQUENCE CHARACTERISTICS:
     218            (A) LENGTH: 6 amino acids
     219            (B) TYPE: amino acid
     220            (C) STRANDEDNESS: single
W--> 221            (D) TOPOLOGY: not relevant
     222       (ii) MOLECULE TYPE: peptide
     223       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
     224        Glu Asp Ser Tyr Asp Ser
     225        1               5
     226  (2) INFORMATION FOR SEQ ID NO: 13:
     227       (i) SEQUENCE CHARACTERISTICS:
     228            (A) LENGTH: 7 amino acids
     229            (B) TYPE: amino acid
     230            (C) STRANDEDNESS: single
W--> 231            (D) TOPOLOGY: not relevant
     232       (ii) MOLECULE TYPE: peptide
     233       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
     234        Glu Asp Ser Tyr Asp Ser Phe
     235        1               5
     236  (2) INFORMATION FOR SEQ ID NO: 14:
     237       (i) SEQUENCE CHARACTERISTICS:
     238            (A) LENGTH: 8 amino acids
     239            (B) TYPE: amino acid
     240            (C) STRANDEDNESS: single
W--> 241            (D) TOPOLOGY: not relevant
     242       (ii) MOLECULE TYPE: peptide
     243       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
     244        Glu Asp Ser Tyr Asp Ser Phe Gly
     245        1               5
     246  (2) INFORMATION FOR SEQ ID NO: 15:
     247       (i) SEQUENCE CHARACTERISTICS:
     248            (A) LENGTH: 8 amino acids
     249            (B) TYPE: amino acid
     250            (C) STRANDEDNESS: single
W--> 251            (D) TOPOLOGY: not relevant
     252       (ii) MOLECULE TYPE: peptide
     253       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
     254        Asp Tyr Lys Asp Asp Asp Asp Lys
     255        1               5
     256  (2) INFORMATION FOR SEQ ID NO: 16:
     257       (i) SEQUENCE CHARACTERISTICS:
     258            (A) LENGTH: 9 amino acids
     259            (B) TYPE: amino acid
     260            (C) STRANDEDNESS: single
W--> 261            (D) TOPOLOGY: not relevant
     262       (ii) MOLECULE TYPE: peptide
     263       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
     264        Asp Ser Glu Pro Asp Ser Pro Val Phe
     265        1               5
```

RAW SEQUENCE LISTING DATE: 08/11/2000
PATENT APPLICATION: US/09/065,902 TIME: 15:57:54

Input Set : A:\06094270001-Seqlisting.txt
Output Set: N:\CRF3\08142000\I065902.raw

(2) INFORMATION FOR SEQ ID NO: 17:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
W--> (D) TOPOLOGY: not relevant
(ii) MOLECULE TYPE: peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
Lys Asp Glu Pro Asp Ser Pro Pro Val
1 5
(2) INFORMATION FOR SEQ ID NO: 18:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
W--> (D) TOPOLOGY: not relevant
(ii) MOLECULE TYPE: peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
Gln Arg Asp Ser His
1 5

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/065,902

Input Set : A:\06094270001-Seqlisting.txt
Output Set: N:\CRF3\08142000\I065902.raw

L:80 M:220 C: Keyword misspelled or invalid format. [(A) APPLICATION NUMBER:]
L:81 M:220 C: Keyword misspelled or invalid format. [(B) FILING DATE:]
L:83 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=1. Value=[not relevant]
L:85 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=2. Value=[not relevant]
L:87 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=3. Value=[not relevant]
L:89 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=4. Value=[not relevant]
L:107 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=5. Value=[not relevant]
L:125 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=6. Value=[not relevant]
L:143 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=7. Value=[not relevant]
L:161 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=8. Value=[not relevant]
L:179 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=9. Value=[not relevant]
L:197 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=10. Value=[not relevant]
L:215 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=11. Value=[not relevant]
L:233 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=12. Value=[not relevant]
L:251 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=13. Value=[not relevant]
L:269 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=14. Value=[not relevant]
L:287 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=15. Value=[not relevant]
L:305 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=16. Value=[not relevant]
L:323 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=17. Value=[not relevant]
L:341 M:216 W: Invalid value of Alpha Sequence Header Field. [TOPOLOGY:]. SeqNo=18. Value=[not relevant]